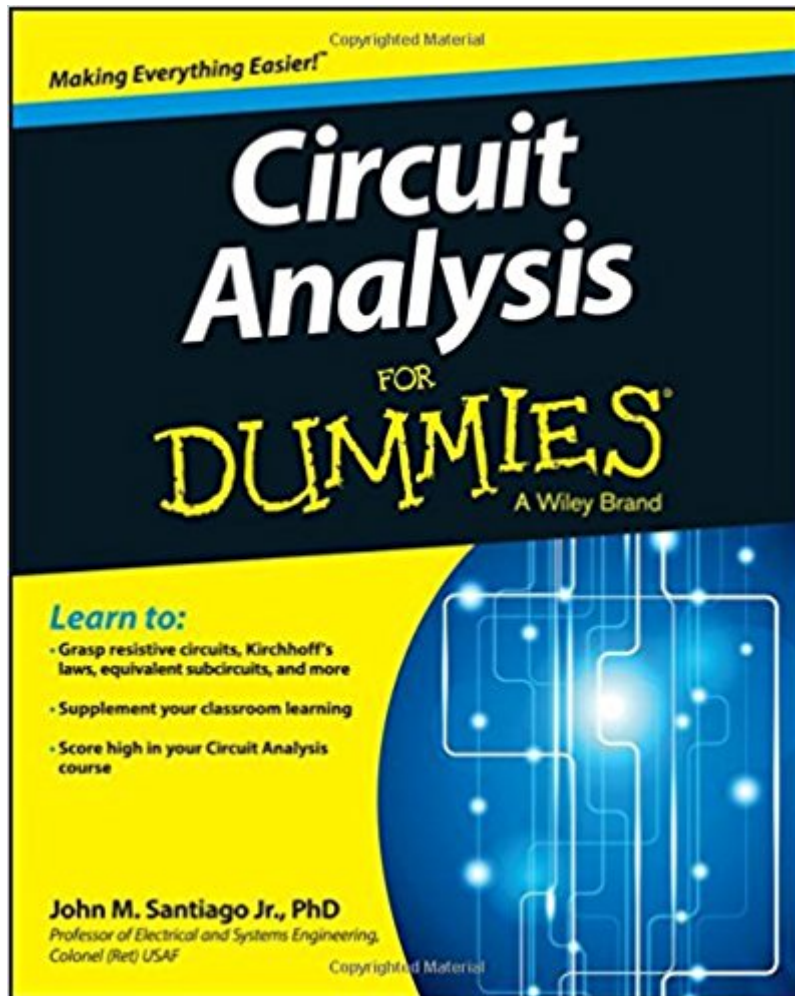




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# Circuit Analysis For Dummies



## Synopsis

Circuits overloaded from electric circuit analysis? Many universities require that students pursuing a degree in electrical or computer engineering take an Electric Circuit Analysis course to determine who will "make the cut" and continue in the degree program. Circuit Analysis For Dummies will help these students to better understand electric circuit analysis by presenting the information in an effective and straightforward manner. Circuit Analysis For Dummies gives you clear-cut information about the topics covered in an electric circuit analysis courses to help further your understanding of the subject. By covering topics such as resistive circuits, Kirchhoff's laws, equivalent sub-circuits, and energy storage, this book distinguishes itself as the perfect aid for any student taking a circuit analysis course. Tracks to a typical electric circuit analysis course Serves as an excellent supplement to your circuit analysis text Helps you score high on exam day Whether you're pursuing a degree in electrical or computer engineering or are simply interested in circuit analysis, you can enhance your knowledge of the subject with Circuit Analysis For Dummies.

## Book Information

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## Customer Reviews

Learn to: Grasp resistive circuits, Kirchhoff's laws, equivalent subcircuits, and more

Supplement your classroom learning Score high in your Circuit Analysis course Circuits overloaded from electrical circuit analysis? Circuit Analysis For Dummies gives you clear-cut information about the topics covered in a typical circuit analysis course. From resistive circuits and Kirchhoff's laws to equivalent subcircuits and energy storage, this friendly, hands-on guide is the perfect aid for

making sense of the topics that may be confusing you in your circuit analysis course. So what are you waiting for? Circuit Analysis 101 &#151; get the lowdown on the engineering lingo, concepts, and techniques necessary to analyze circuits Simplify it &#151; understand the general analytical methods that help you simplify more complicated circuits to a manageable level Get amped &#151; recognize how to work with transistors as current amplifiers and op-amps as voltage amplifiers Ch-ch-ch-changes &#151; deal with changing signals and circuits that have passive energy storage devices (such as inductors and capacitors) Be a convert &#151; use phasor and Laplace techniques to convert a calculus-based problem into one requiring only algebra Open the book and find: The keys to reading circuit schematics How to apply Ohm's law and Kirchhoff's laws when analyzing circuits The steps for transforming sources Mesh current analysis, superposition, and other useful analytical methods The ins and outs of op-amp circuits Approaches for analyzing first- and second-order circuits How to create filters by connecting resistors, inductors, and capacitors

John M. Santiago Jr., PhD, served in the United States Air Force (USAF) for 26 years. During that time, he held a variety of leadership positions in technical program management, acquisition development, and operation research support. While assigned in Europe, he spearheaded more than 40 international scientific and engineering conferences/workshops.

While the mathematics and techniques in this book are correct I found it hard to follow. After two chapters I still failed to understand the direction of the book. I don't believe this a a good starting point for those who wish to learn circuit analysis. Adults need to know why a concept is important to learn. This book fails in that regard.

This book is well organized for a quick trip through circuit analysis. I studied math at school and this Dummies' approach did minimize the math knowledge and sophistication generally required to actually derive the formulas needed which in my case was exactly what I needed. I am just trying to help my son learn a little more about circuit design so he can continue being interested in, rather than become frustrated with, electronics. This book was perfect for my objective.

Good book and good price!!

Explains everything in a clear way.

Good book! I'm enjoying this book as a really good review.

Got for my husband to help supplement what the professor wasn't teaching. He felt it's a great side book to help with class and would suggest it.

Not detailed enough but otherwise it's a good summary of circuit design.

great

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